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ONC 5551
Copy 6 of 6
27 August 63

MEMORANDUM FOR : Deputy for Field Activities, OSA
SUBJECT : INS "Destination Select Switch" Position
REFERENCE : (A) ONC 4845 dated 22 April 63
(B) ONC 5492 dated 21 August 63

1. Reference (A) outlined the results of a meeting between representatives of Honeywell, St. Petersburg and OD/OSA to discuss the INS limitation of eight fix positions. It was concluded that on a nine hour mission more than eight fix/turn positions will be required. Furthermore, it was concluded that sixteen fix/turn points would be required for a representative mission and as a result, action was initiated to effect the change. This represented more than a minor change as was stated in reference (A) and involves a three month lead time and will cost approximately \$20,000.

Procurement of parts and sub-contracting has already begun with first delivery estimated about 1 October 1963.

2. Reference (B) advises that a recent study has been completed and that forty positions are required. The necessity for the large increase in the number of positions is not evident since fixes are only required at intervals of approximately 1.5 hours and a fix may be taken on any landmark whose geographical coordinates are known. Furthermore, fixes must be taken optically

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refueling, only one position, the refuel coordinates, is essential for each refuel. Ideally the IHS should provide sufficient positions to accommodate any eventuality whether it be foul weather, engine malfunction, or any other emergency one might choose to select. However, practically this is inadvisable since the more complex the equipment, the less reliable it becomes. Also the "VAR" position does allow the pilot to insert any coordinates at any time and since, in general, the "VAR" position will be used only once during a mission, i.e., one emergency, this may not be considered to be a burden on the pilot.

3. We will look into the matter of second reference and advise.

JOHN PARANGOSKY
D/TECH/OSA

John Parangosky: D/TECH/OSA; go

Dist. Cy 1 - D/FA/OSA
2 - AD/OSA
3 - D/TECH/OSA
4 - ASD/OSA
5 - ASD/OSA (chrono)
6 - RB/OSA

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